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L	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/549,474	08/04/2006	Katsuo Sueishi	50026/055001	2218
	21559 CLARK & ELI	7590 10/10/2007 BING LLP		EXAMINER	
	101 FEDERAL			HAMA, JOANNE	
	BOSTON, MA 02110			ART UNIT	PAPER NUMBER
				1632	
				NOTIFICATION DATE	DELIVERY MODE
				10/10/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentadministrator@clarkelbing.com

	Application No.	Applicant(s)			
•	10/549,474	SUEISHI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Joanne Hama, Ph.D.	1632			
The MAILING DATE of this communication app Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D. (35 U.S.C. & 133)			
Status					
	Responsive to communication(s) filed on <u>04 August 2006</u> .				
· · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	· · · · · · · · · · · · · · · · · · ·	,			
Disposition of Claims					
4) ⊠ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-10 are subject to restriction and/or expressions.	wn from consideration.				
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicationity documents have been received in Price (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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This Application, filed August 4, 2006, is a 371 of PCT/ JP04/02887, filed March 5, 2004, and claims priority to 2003-075964, filed March 19, 2003, in Japan.

Claims 1-10 are pending.

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-10, drawn to a method for treating an inflammatory disease accompanied by bone destruction comprising the step of administering a <u>vector encoding a protein</u> that inhibits a signal transduction pathway mediated by FGF2-FGF receptor-Ras-Raf-MAP kinase and to a composition comprising a vector encoding a protein that inhibits a signal transduction pathway mediated by FGF2-FGF receptor-Ras-Raf-MAP kinase.

Group 2, claim(s) 1, 5, 6, 10, drawn to a method for treating an inflammatory disease accompanied by bone destruction comprising the step of administering a <u>nucleic acid</u> that inhibits a signal transduction pathway mediated by FGF2-FGF receptor-Ras-Raf-MAP kinase and to a composition comprising nucleic acid that inhibits a signal transduction pathway mediated by FGF2-FGF receptor-Ras-Raf-MAP kinase.

The inventions listed as Groups 1-2 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Unity of invention between different catagories of inventions will only be found to exist if the specific combinations are present. These combinations include:

1) a product and special process of manufacture of said product,

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- 2) a product and a process of use of said product,
- 3) a product, a special process of manufacture of said product, and a process of use of said product,
- 4) a process and an apparatus specially designed to carry out said process,
- 5) a product, a special process of manufacture of said product, and an apparatus specially designed to carry out said process.

The allowed combinations do not include multiple products, multiple methods of using said product, and methods of making multiple products as claimed in the instant application, see MPEP § 1850.

In addition to this, Yamashita et al., 2002, The Journal of Immunology, 168: 450-457 teach that anti-FGF-2 antibodies attenuated clinical symptoms and histopathological abnormalities of adjuvant-induced arthritis (AIA) (Yamashita, et al., abstract).

Each of the inventions is distinct from the other as the methods of using a nucleic acid vector comprising a nucleic acid sequence encoding a protein requires different reagents than administration of nucleic acids, such as RNAi or antisense.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Claims 4 and 9 are drawn to distinctly named proteins that can be used to inhibit members of the signal transduction pathway and one must be elected. Each protein is

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distinct from the other because each comprises a different structure and biological function. The search and examination for each protein is burdensome because the searches are not coextensive.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: claims 1-10 are generic for proteins that inhibit members in the FGF signal transduction pathway.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not

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distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joanne Hama, Ph.D. whose telephone number is 571-272-2911. The examiner can normally be reached Monday through Thursday and alternate Fridays from 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras, can be reached on 571-272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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Joanne Hama Art Unit 1632

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